



## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

### Listing of Claims:

1           1. (Currently amended) A system for enabling one or more  
2     arbitrary components to communicate with each other, the system  
3     comprising:  
4         a first component associated with one or more universal interfaces,  
5     wherein the one or more universal interfaces comprise executable code and  
6     data; and  
7         a second component obtaining one of the one or more universal  
8     interfaces associated with the first component and automatically invoking the at  
9     least one of the universal interfaces to communicate with the first component.

1           2. (Original) The system as set forth in claim 1 wherein the first  
2     component transfers a data object to the second component, the data object  
3     having the one or more universal interfaces.

1           3. (Original) The system as set forth in claim 1 wherein the first  
2     component transfers a data object to the second component, the data object  
3     having instructions and data for accessing the one or more universal interfaces.

1           4. (Original) The system as set forth in claim 1 wherein the second  
2     component has instructions and data for accessing a data object, the data object  
3     having the one or more universal interfaces.

1           5. (Original) The system as set forth in claim 1 wherein the second  
2 component interacts with an operating system environment, the operating  
3 system environment having instructions and data for accessing a data object  
4 having the one or more universal interfaces.

1           6. (Original) The system as set forth in claim 1 wherein the second  
2 component has instructions and data for using the one or more universal  
3 interfaces.

1           7. (Original) The system as set forth in claim 1 wherein a third  
2 component transfers a data object to the second component, the data object  
3 having the one or more universal interfaces associated with the first  
4 component.

1           8. (Original) The system as set forth in claim 1 wherein the one or more  
2 universal interfaces comprise a data source interface, a data sink interface, an  
3 aggregation interface, a mutable aggregation interface, a context interface, a  
4 notification interface or a user interface.

1           9. (Original) The system as set forth in claim 1 wherein the one or more  
2 universal interfaces comprise object-oriented mobile code having instructions  
3 for obtaining, interpreting, viewing or modifying data associated with one or  
4 more collections of components, providing one or more user interfaces to allow  
5 one or more components to be accessed or manipulated, allowing one or more  
6 components to provide event notifications or retrieving contextual data  
7 associated with the second component.

1           10. (Original) The system as set forth in claim 1 wherein one of the one

2 or more universal interfaces comprise a source-specific data transfer session  
3 having instructions for converting data transferred through the source-specific  
4 data transfer session.

1 11. (Original) The system as set forth in claim 1 wherein the one or more  
2 arbitrary components comprise a computer system, device, network service,  
3 application, data, memory, file directory or individual file.

1 12. (Currently amended) A method for enabling one or more  
2 arbitrary components to communicate with each other, the method  
3 comprising:  
4 obtaining one of one or more universal interfaces associated with a  
5 first component, wherein the one or more universal interfaces comprise  
6 executable code and data; and  
7 automatically invoking at least one of the universal interfaces to  
8 communicate with the first component.

1 13. (Original) The method as set forth in claim 12 further comprising  
2 transferring a data object to a second component, the data object having the one  
3 or more universal interfaces.

1 14. (Original) The method as set forth in claim 12 further comprising  
2 transferring a data object to a second component, the data object having  
3 instructions and data for enabling the second component to use the one or more  
4 universal interfaces.

1 15. (Original) The method as set forth in claim 12 further comprising  
2 transferring a data object to a second component, the second component having

3 instructions and data for enabling it to use the one or more universal interfaces.

1 16. (Original) The method as set forth in claim 12 wherein a second  
2 component interacts with an operating system environment, the operating  
3 system environment having instructions and data for enabling the second  
4 component to use the one or more universal interfaces.

1 17. (Original) The method as set forth in claim 12 wherein a second  
2 component performs instructions for using the one or more universal interfaces.

1 18. (Original) The method as set forth in claim 12 wherein a third  
2 component transfers a data object to a second component, the data object having  
3 the one or more universal interfaces associated with the first component.

1 19. (Original) The method as set forth in claim 12 wherein the one or  
2 more universal interfaces comprise a data source interface, a data sink interface,  
3 an aggregation interface, a mutable aggregation interface, a context interface, a  
4 notification interface or a user interface.

1 20. (Original) The method as set forth in claim 12 wherein the one or  
2 more universal interfaces comprise object-oriented mobile code having  
3 instructions for obtaining, interpreting, viewing or modifying obtaining, viewing  
4 or modifying data associated with a collection of components, providing an  
5 interface to allow requested components to be accessed or manipulated directly,  
6 allowing requested components to provide the one or more other components  
7 with status updates of the requested components or retrieving contextual data  
8 associated with the second component.

1           21. (Original) The method as set forth in claim 12 wherein one of the  
2 one or more universal interfaces comprise a source-specific data transfer session  
3 having instructions for converting data transferred through the source-specific  
4 data transfer session.

1           22. (Original) The method as set forth in claim 12 wherein the one or  
2 more arbitrary components comprise a device, network service, application,  
3 data, memory, file directory or individual file.

1           23. (Currently amended) A computer readable medium having stored  
2 thereon instructions for enabling one or more arbitrary components to  
3 communicate with each other, which when executed by one or more processors,  
4 causes the processors to perform:

5           obtaining one of one or more universal interfaces associated with a  
6 first component, wherein the one or more universal interfaces comprise  
7 executable code and data; and

8           automatically invoking at least one of the universal interface to  
9 communicate with the first component.

1           24. (Original) The medium as set forth in claim 23 further comprising  
2 transferring a data object to a second component, the data object having the one  
3 or more universal interfaces.

1           25. (Original) The medium as set forth in claim 23 further comprising  
2 transferring a data object to a second component, the data object having  
3 instructions and data for enabling the second component to use the one or more  
4 universal interfaces.

1           26. (Original) The medium as set forth in claim 23 further comprising  
2 transferring a data object to a second component, the second component having  
3 instructions and data for enabling it to use the one or more universal interfaces.

1           27. (Original) The medium as set forth in claim 23 wherein a second  
2 component interacts with an operating system environment, the operating  
3 system environment having instructions and data for enabling the second  
4 component to use the one or more universal interfaces.

1           28. (Original) The medium as set forth in claim 23 wherein a second  
2 component performs instructions for using the one or more universal interfaces.

1           29. (Original) The medium as set forth in claim 23 wherein a third  
2 component transfers a data object to a second component, the data object having  
3 the one or more universal interfaces associated with the first component.

1           30. (Original) The medium as set forth in claim 23 wherein the one or  
2 more universal interfaces comprise a data source interface, a data sink interface,  
3 an aggregation interface, a mutable aggregation interface, a context interface, a  
4 notification interface or a user interface.

1           31. (Original) The medium as set forth in claim 23 wherein the one or  
2 more universal interfaces comprise object-oriented mobile code having  
3 instructions for obtaining, interpreting, viewing or modifying obtaining, viewing  
4 or modifying data associated with a collection of components, providing an  
5 interface to allow requested components to be accessed or manipulated directly,  
6 allowing requested components to provide the one or more other components  
7 with status updates of the requested components or retrieving contextual data

8 associated with the second component.

1 32. (Original) The medium as set forth in claim 23 wherein one of the  
2 one or more universal interfaces comprise a source-specific data transfer session  
3 having instructions for converting data transferred through the source-specific  
4 data transfer session.

1 33. (Original) The medium as set forth in claim 23 wherein the one or  
2 more arbitrary components comprise a device, network service, application,  
3 data, memory, file directory or individual file.

1 34. (Currently amended) A computer data signal embodied in a carrier  
2 wave for enabling one or more arbitrary components to communicate with each  
3 other, the signal comprising:  
4 a first source code segment having instructions for causing a first  
5 component to obtain one of one or more universal interfaces associated with a  
6 second component, wherein the one or more universal interfaces comprise  
7 executable code and data; and  
8 a second source code segment having instructions for causing the first  
9 component to automatically invoke at least one of the universal interfaces to  
10 communicate with the second component.

1 35. (Original) The signal as set forth in claim 34 further comprising  
2 transferring a data object to a second component, the data object having the one  
3 or more universal interfaces.

1 36. (Original) The signal as set forth in claim 34 further comprising  
2 transferring a data object to a second component, the data object having

3 instructions and data for enabling the second component to use the one or more  
4 universal interfaces.

1 37. (Original) The signal as set forth in claim 34 further comprising  
2 transferring a data object to a second component, the second component having  
3 instructions and data for enabling it to use the one or more universal interfaces.

1 38. (Original) The signal as set forth in claim 34 wherein a second  
2 component interacts with an operating system environment, the operating  
3 system environment having instructions and data for enabling the second  
4 component to use the one or more universal interfaces.

1 39. (Original) The signal as set forth in claim 34 wherein a second  
2 component performs instructions for using the one or more universal interfaces.

1 40. (Original) The signal as set forth in claim 34 wherein a third  
2 component transfers a data object to a second component, the data object  
3 having the one or more universal interfaces associated with the first  
4 component.

1 41. (Original) The signal as set forth in claim 34 wherein the one or  
2 more universal interfaces comprise a data source interface, a data sink interface,  
3 an aggregation interface, a mutable aggregation interface, a context interface, a  
4 notification interface or a user interface.

1 42. (Original) The signal as set forth in claim 34 wherein the one or  
2 more universal interfaces comprise object-oriented mobile code having  
3 instructions for obtaining, interpreting, viewing or modifying obtaining, viewing



4 or modifying data associated with a collection of components, providing an  
5 interface to allow requested components to be accessed or manipulated directly,  
6 allowing requested components to provide the one or more other components  
7 with status updates of the requested components or retrieving contextual data  
8 associated with the second component.

1 43. (Original) The signal as set forth in claim 34 wherein one of the one  
2 or more universal interfaces comprise a source-specific data transfer session  
3 having instructions for converting data transferred through the source-specific  
4 data transfer session.

1 44. (Original) The signal as set forth in claim 34 wherein the one or  
2 more arbitrary components comprise a device, network service, application,  
3 data, memory, file directory or individual file.